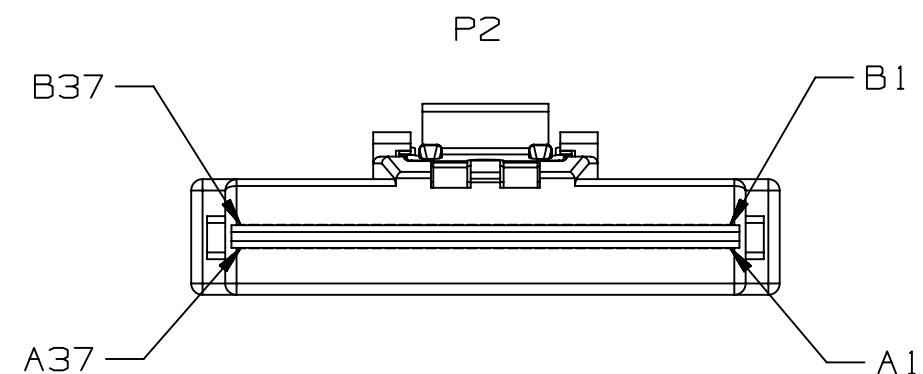
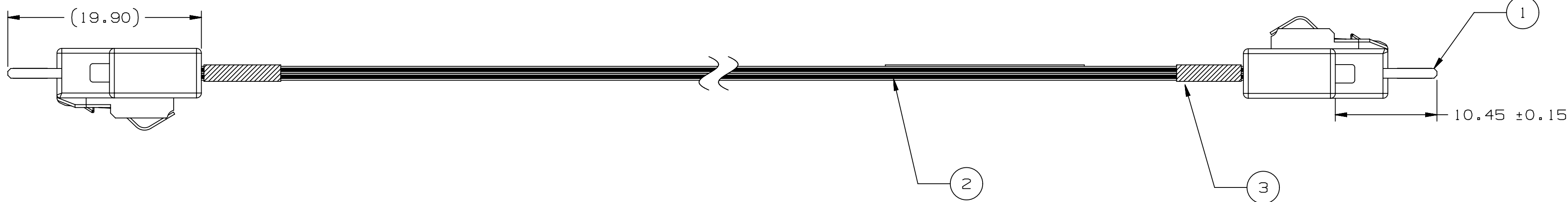
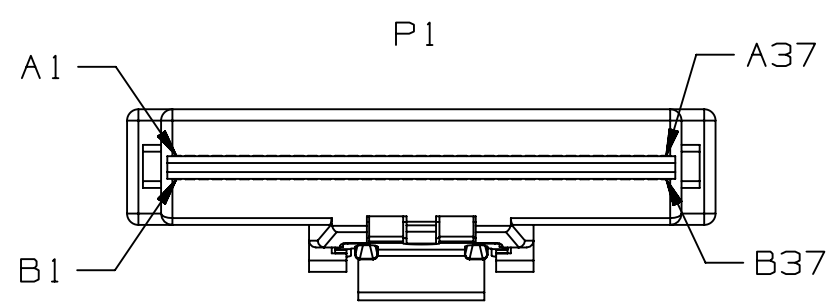
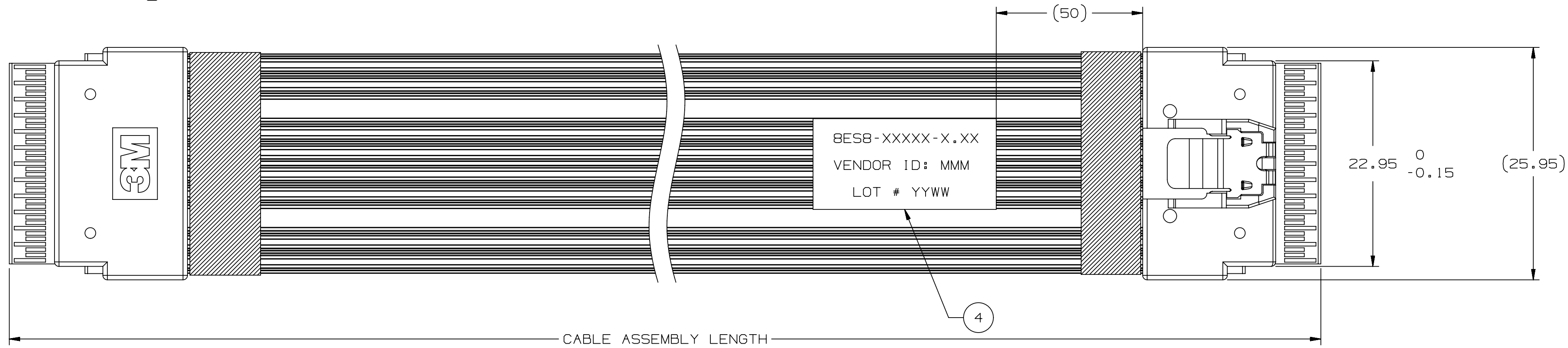


X8
ST-ST
ASSEMBLY



NOTES :

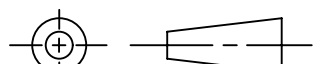
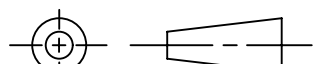
- REGULATORY INFORMATION:
VISIT 3M.com/regs OR CONTACT
YOUR 3M REPRESENTATIVE TO FIND
THE RoHS COMPLIANCE STATUS OF
THE 3M PART YOU ARE INTERESTED IN.
- PADDLICARD PLATING:
30μ" MIN. GOLD PLATING
50μ" MIN. NICKEL UNDERPLATING.
P/N: SEE P/N TABLE
- 3M™ SLIMLINE TWIN AXIAL CABLE PLUG
DIMENSIONS ARE DESIGNED TO SFF-8654.
- PRODUCT SPECIFICATION: SEE P/N TABLE
- TWO RIBBONS OF 3M™ RIBBON TWIN
AXIAL CABLE.
SEE P/N TABLE
- THIS CABLE CONSTRUCTION HAS A
THIN ALUMINUM LAYER AT EACH EDGE.
USER SHOULD EVALUATE ITS USE IN
THEIR APPLICATION AND, IF
NECESSARY, INSULATING TAPE MAY BE
APPLIED TO COVER THE ALUMINUM
LAYER, AS USER DEEMS APPROPRIATE.
- UNLESS OTHERWISE NOTED,
REFERENCE TO INDUSTRY SPECIFICATIONS
ARE INTENDED TO INDICATE SUBSTANTIAL
COMPLIANCE TO MATERIAL ELEMENTS OF
THE SPECIFICATION, SUCH REFERENCES
SHOULD NOT BE CONSTRUED AS A GUARANTEE
OF COMPLIANCE TO ALL REQUIREMENTS IN A
GIVEN SPECIFICATION.
- CLOTH TAPE WRAPPED AROUND CABLE
RIBBONS AT BACK OF EACH CONNECTOR.
ALSO, UP TO TWO ADDITIONAL TAPE
PIECES WILL BE WRAPPED AROUND THE
TWO CABLE RIBBONS SPACED EQUIDISTANT
FROM THE CONNECTOR ENDS AND EACH
OTHER, DEPENDING ON ASSY LENGTH (L):
L ≤ 0.2M: NO ADDITIONAL TAPE
0.2M < L ≤ 0.6M: 1 TAPE WRAP
0.6M < L ≤ 1.0M: 2 TAPE WRAP
- LENGTH TOLERANCE:
±6MM FOR LENGTH ≤ 0.5 METERS
±10MM FOR LENGTH > 0.5 METERS

ASSEMBLY P/N	APPLICATION IMPEDANCE	PINOUT	PROD SPEC #	PCB	TWINAX RIBBON
8ES8 - 1AA3X - X.XX	85 OHMS	PINOUT A (8 PR + 2 X 5 SIDEBANDS)	PS-0240	78-9102-4550-1	SL8801/26-15GL5-00 30AWG
8ES8 - 1DF4X - X.XX	85 OHMS	PINOUT D 12 PR	PS-0240	78-9102-5348-9	SL8802/24-A5GN5-00 30AWG
8ES8 - 2AE3X - X.XX	100 OHMS	PINOUT A (8 PR + 2 X 5 SIDEBANDS)	PS-0279	78-9102-3742-5	SL8801/26-2YCM5-00 31AWG

8ES8-XXXXX-X.XX
VENDOR ID: MMM
LOT # YYWW

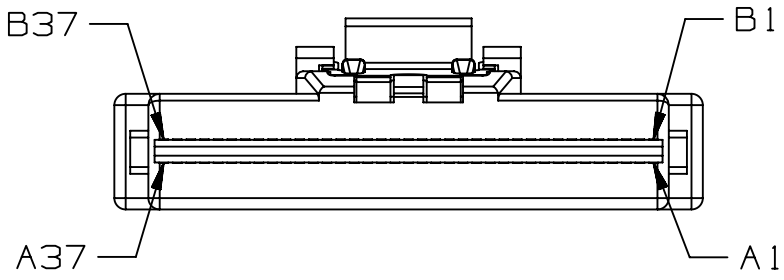
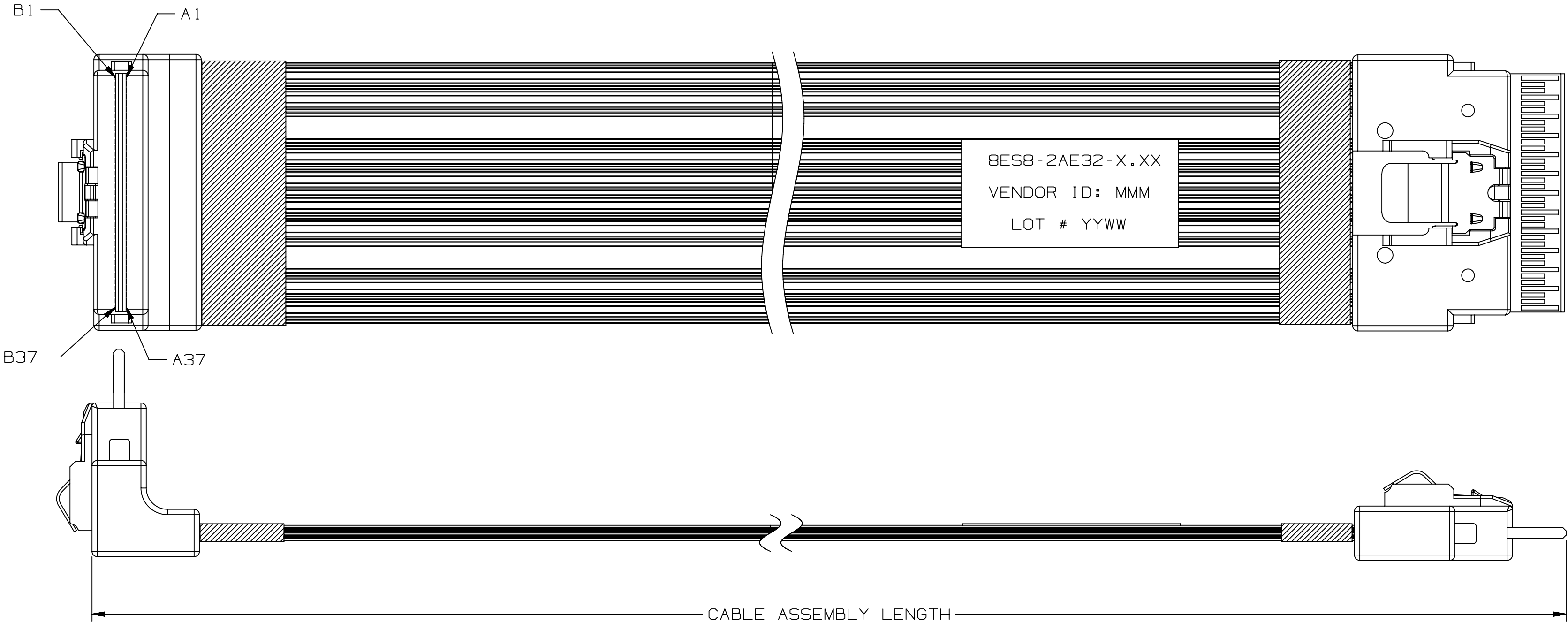
LABEL INFORMATION

8ES8 -X XXX X - X.XX
LENGTH IN METERS 0.125 TO 0.75
1 - ST-ST PLUG ASSEMBLY
2 - RA-ST PLUG ASSEMBLY
3 - RA-RA PLUG ASSEMBLY
REFER TO P/N TABLE DETAIL
1: 85 OHM APPLICATIONS
2: 100 OHM APPLICATIONS

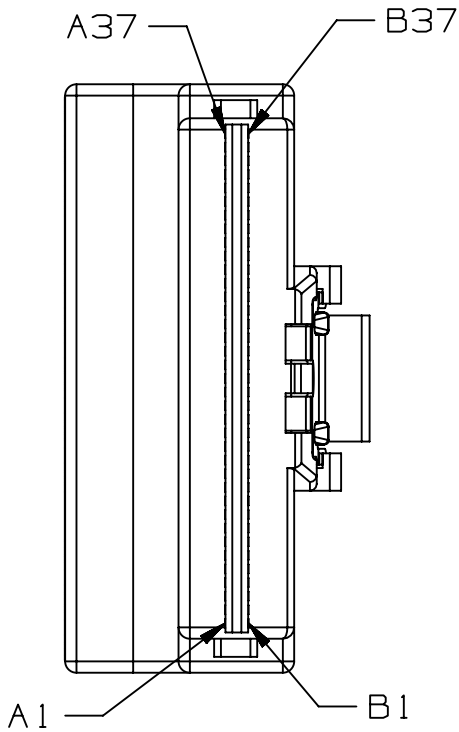
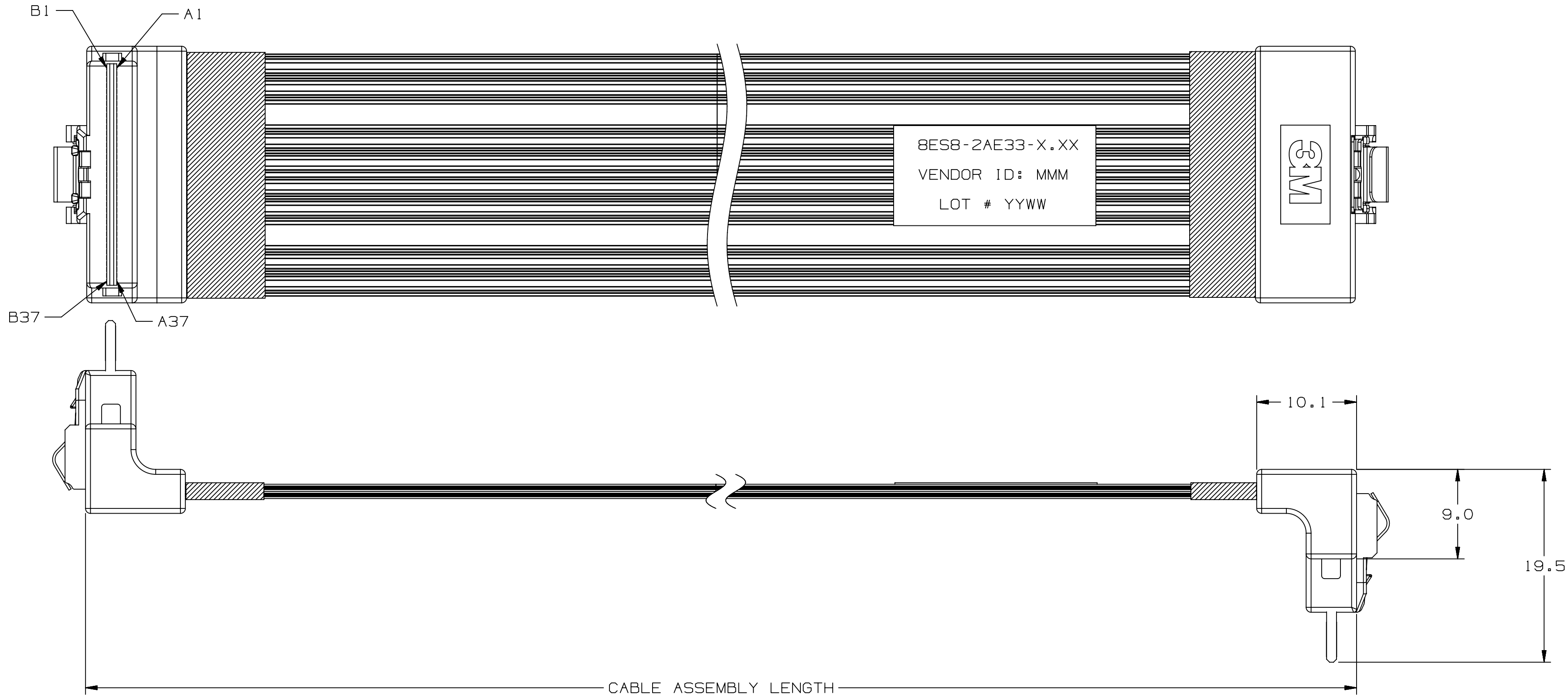
A 0117630				JUL 22, 2024				BJW		MML					
INITIAL RELEASE															
REV				ECO				ISSUE DATE AND DESCRIPTION				DRPT		CHKD	
CHG B WILLIAMS				DATE JUN 19, 2024				MFO				DATE			
CHG M LETTANG				DATE JUN 19, 2024				APPL				DATE			
DIVISION				DIVISION CODE				© 3M COPYRIGHT 2024							
DO NOT SCALE DRAWING				SCALE 2 1				TOLERANCES EXCEPT AS NOTED				3M 3M Center St. Paul, MN 55144			
								INCHES 0.0 0.00 0.000 0.0000				TITLE SLIMLINE, SFF-8654, X8/X4 CABLE ASSEMBLIES			
THIRD ANGLE PROJECTION				INTERPRET PER ASME Y14.5 - 2018				MILLIMETERS 0 0.2 0.5 0.00 0.013 0.000 0.005				CAGE NUMBER S I Z E DRAWING NO. D 78-5100-2811-7			
MAX SURFACE ROUGHNESS 125				☒ ALL SURFACES				MARKED ONLY				REV. A			
				ANGLES ± 1°				DET 1 S T S				YES ☒ NO ☐ SHT 1 OF 1			

3M™ SlimLine Twin Axial Cable Assembly, SFF-8654, 8ESx Series

X8
RA-ST
ASSEMBLY



X8
RA-RA
ASSEMBLY



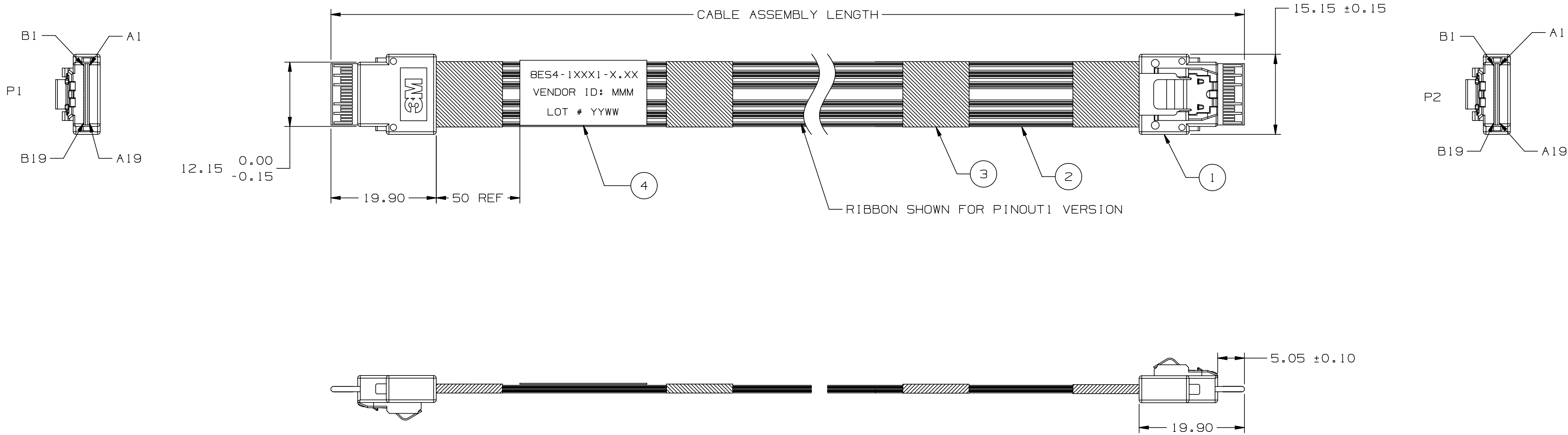
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INTERCONNECT SOLUTIONS
<http://www.3mconnectors.com>

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DESIGN REFERENCE		NEXT ASSEMBLY		REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT	CHKD
X8ES8				B		WILLIAMS		DATE JUN 19, 2024		DATE	
DIVISION		DIVISION CODE		CHKD		M LETTANG		DATE JUN 19, 2024		APPR	DATE
DO NOT SCALE DRAWING		SCALE 1		TOLERANCES EXCEPT AS NOTED		INCHES		MILLIMETERS		TITLE	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2018		0 ±.00		0 ±.00		0 ±.00		SLIMLINE, SFF-8654, X8/X4 CABLE ASSEMBLIES	
MAX SURFACE ROUGHNESS 125		ALL SURFACES		0 ±.00		0 ±.00		0 ±.00		CAGE NUMBER	
MARKED ONLY		ANGLES ±1°		0 ±.00		0 ±.00		0 ±.00		DRAWING NO. 78-5100-2811-7	
										REV. A	
										MODEL	
										SHT 2 OF 6	

3M™ SlimLine Twin Axial Cable Assembly, SFF-8654, 8ESx Series

X4
ST-ST
ASSEMBLY



8ES4-XXXXX-X.XX
VENDOR ID: MMM
LOT # YYWW
LABEL INFORMATION

ASSEMBLY P/N	APPLICATION IMPEDANCE	PINOUT	PROD SPEC #	PCB	TWINAX RIBBON
8ES4 - 1AA3X - X.XX	85 OHMS	PINOUT A (4 PR + 5 SIDEBANDS)	PS-0240	78-9102-4552-7	SL8801/26-15GL5-00 30AWG (HALF WIDTH)
8ES4 - 1DF4X - X.XX	85 OHMS	PINOUT D 6 PR	PS-0240	78-9102-3249-1	SL8802/24-A5GN5-00 30AWG (HALF WIDTH)
8ES4 - 2AE3X - X.XX	100 OHMS	PINOUT A (4 PR + 5 SIDEBANDS)	PS-0279	78-9102-3960-3	SL8801/26-2YCM5-00 31AWG (HALF WIDTH)

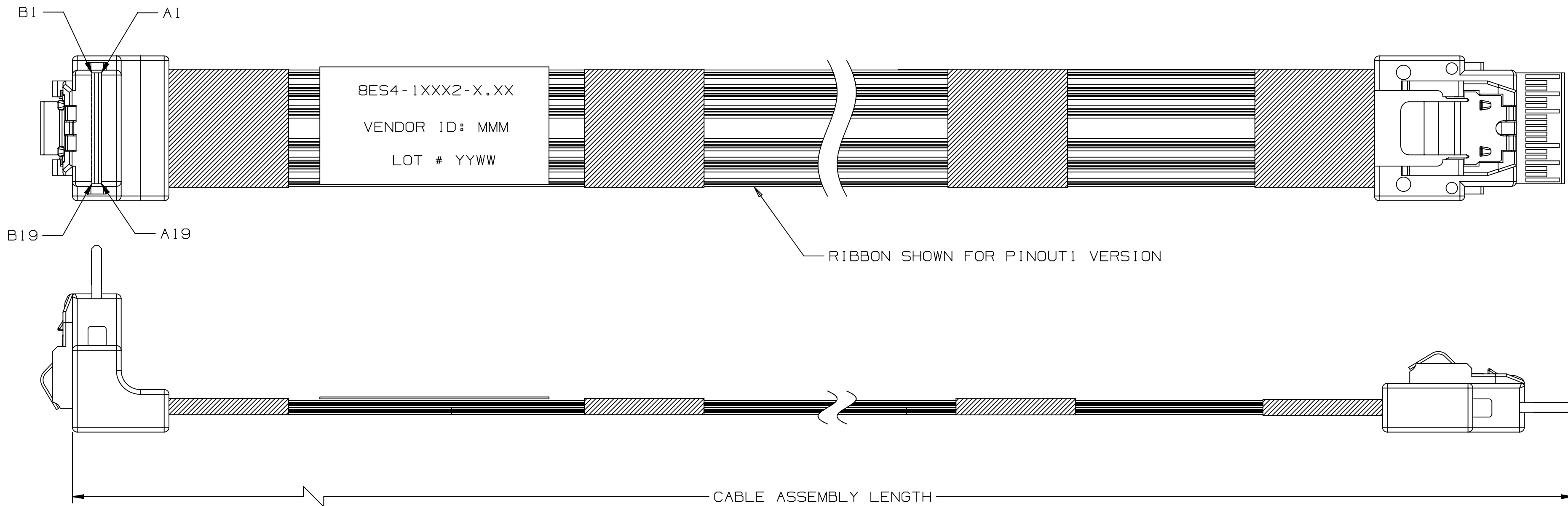
8ES4 -X XXX X - X.XX
1 - ST-ST PLUG ASSEMBLY
2 - RA-ST PLUG ASSEMBLY
3 - RA-RA PLUG ASSEMBLY
LENGTH IN METERS 0.125 TO 1.00
REFER TO P/N TABLE DETAIL
1: 85 OHM APPLICATIONS
2: 100 OHM APPLICATIONS

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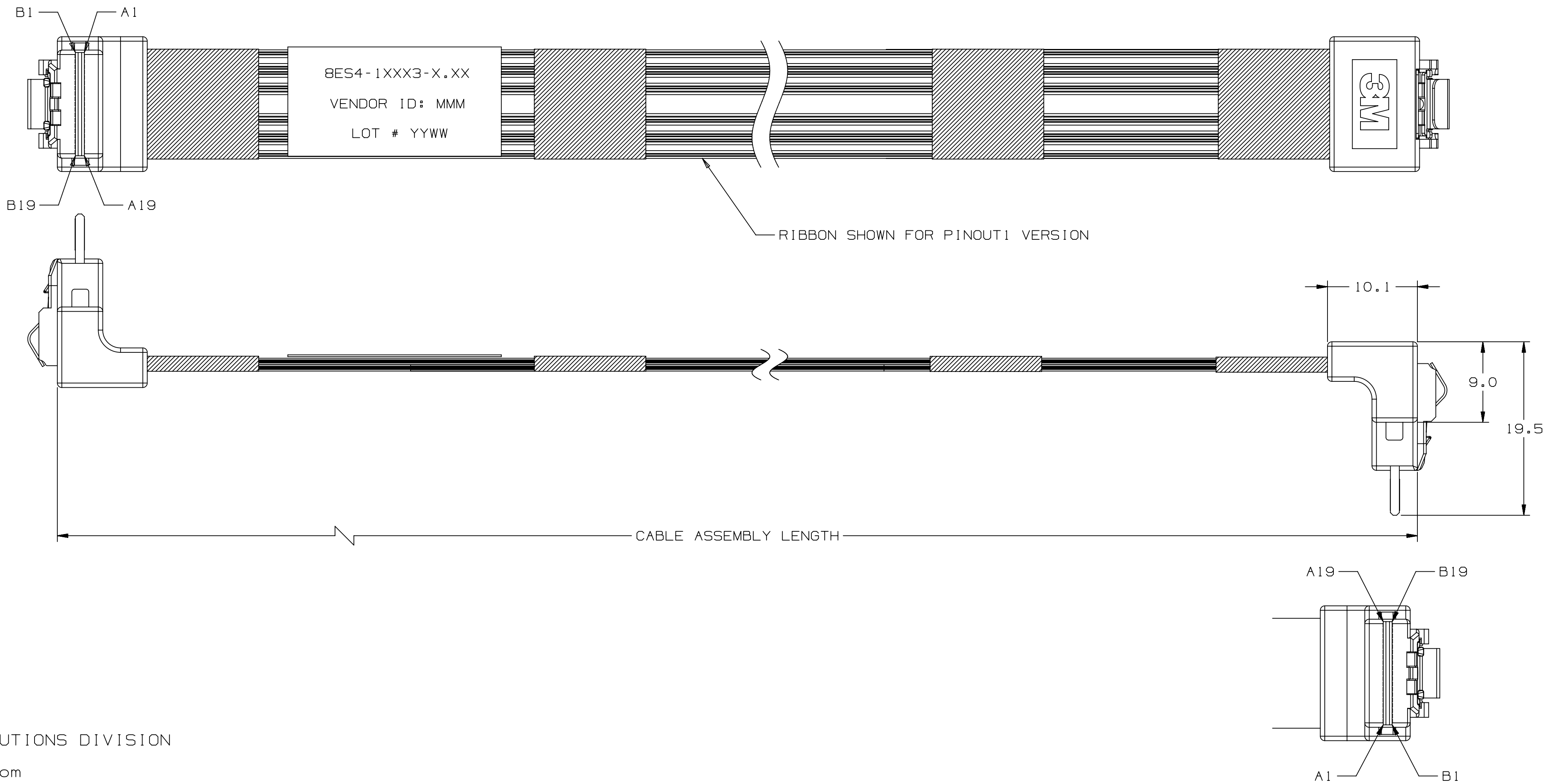
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DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
XCSBP		XCSBP		DRFT	B WILLIAMS	DATE	JUN 19, 2024	MFR	DATE
DIVISION		DIVISION CODE		CHKD	M LETTANG	DATE	JUN 19, 2024	APPL	DATE
DO NOT SCALE DRAWING		SCALE 2/1		TOLERANCES EXCEPT AS NOTED		3M Center St. Paul, MN 55144			
THIRD ANGLE PROJECTION		INCHES 0 ± 2		MILLIMETERS 0 ± 2		SLIMLINE, SFF-8654, X8/X4 CABLE ASSEMBLIES			
MAX SURFACE ROUGHNESS 125/ALL SURFACES		INTERPRET PER ASME Y14.5 - 2018		CAGE NUMBER		SIZE	DRAWING NO.	REV.	
✓ MARKED ONLY		ANGLES ± 1°		D		78-5100-2811-7	A		
				MODEL		DET	ISTS	YES	NO
						SHT 3 OF 6			

X4
RA-ST
ASSEMBLY



X4
RA-RA
ASSEMBLY



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DESIGN REFERENCE		NEXT ASSEMBLY		REV		ECO		JUL 22,2024		BJW		MML	
X425P		B		WILLIAMS		JUN 19,2024		MFS		DATE		DATE	
DIVISION		DIVISION CODE		CHKD		M LETTANG		JUN 19,2024		APPL		DATE	
DO NOT SCALE DRAWING		SCALE 1		TOLERANCES EXCEPT AS NOTED		INCHES		MILLIMETERS		0 ±.005		0 ±.005	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2018		MAX SURFACE ROUGHNESS		125		ALL SURFACES		MARKED ONLY		ANGLES ±1°	
TITLE		SLIMLINE, SFF-8654, X8/X4 CABLE ASSEMBLIES		CAGE NUMBER		D78-5100-2811-7		REV.		A		SHT 4 OF 6	
MODEL		LISTS		YES		NO		SHT 4 OF 6					

3M™ SlimLine Twin Axial Cable Assembly, SFF-8654, 8ESx Series

X8 PINOUT A

P1		P2
A1	GND	B1
A2	RX0+	B2
A3	RX0-	B3
A4	GND	B4
A5	RX1+	B5
A6	RX1-	B6
A7	GND	B7
A8	SB	B8
A9	SB	B9
A10	SB	B10
A11	SB	B11
A12	SB	B12
A13	GND	B13
A14	RX2+	B14
A15	RX2-	B15
A16	GND	B16
A17	RX3+	B17
A18	RX3-	B18
A19	GND	B19
A20	RX4+	B20
A21	RX4-	B21
A22	GND	B22
A23	RX5+	B23
A24	RX5-	B24
A25	GND	B25
A26	SB	B26
A27	SB	B27
A28	SB	B28
A29	SB	B29
A30	SB	B30
A31	GND	B31
A32	RX6+	B32
A33	RX6-	B33
A34	GND	B34
A35	RX7+	B35
A36	RX7-	B36
A37	GND	B37

NOTE: ALL GND SIGNALS ARE TIED TOGETHER IN THE PADDLECARDS AT EACH END OF ASSEMBLY

X8 PINOUT D

P1		P2
A1	GND	B1
A2	RX0+	B2
A3	RX0-	B3
A4	GND	B4
A5	RX1+	B5
A6	RX1-	B6
A7	GND	B7
A8	SB+	B8
A9	SB-	B9
A10	GND	B10
A11	SB+	B11
A12	SB-	B12
A13	GND	B13
A14	RX2+	B14
A15	RX2-	B15
A16	GND	B16
A17	RX3+	B17
A18	RX3-	B18
A19	GND	B19
A20	RX4+	B20
A21	RX4-	B21
A22	GND	B22
A23	RX5+	B23
A24	RX5-	B24
A25	GND	B25
A26	SB+	B26
A27	SB-	B27
A28	GND	B28
A29	SB+	B29
A30	SB-	B30
A31	GND	B31
A32	RX6+	B32
A33	RX6-	B33
A34	GND	B34
A35	RX7+	B35
A36	RX7-	B36
A37	GND	B37

X4 PINOUT A

P1		P2
A1	GND	B1
A2	RX0+	B2
A3	RX0-	B3
A4	GND	B4
A5	RX1+	B5
A6	RX1-	B6
A7	GND	B7
A8	SB	B8
A9	SB	B9
A10	SB	B10
A11	SB	B11
A12	SB	B12
A13	GND	B13
A14	RX2+	B14
A15	RX2-	B15
A16	GND	B16
A17	RX3+	B17
A18	RX3-	B18
A19	GND	B19

NOTE: ALL GND SIGNALS ARE TIED TOGETHER IN THE PADDLECARDS AT EACH END OF ASSEMBLY

X4 PINOUT D

P1		P2
A1	GND	B1
A2	RX0+	B2
A3	RX0-	B3
A4	GND	B4
A5	RX1+	B5
A6	RX1-	B6
A7	GND	B7
A8	SB+	B8
A9	SB-	B9
A10	GND	B10
A11	SB+	B11
A12	SB-	B12
A13	GND	B13
A14	RX2+	B14
A15	RX2-	B15
A16	GND	B16
A17	RX3+	B17
A18	RX3-	B18
A19	GND	B19

4	PART NUMBER LABEL	1X
3	ACETATE TAPE	AS REQUIRED
2	TWIN AX CABLE , REFER TO P/N TABLE	AS PER LENGTH
1	SLIMLINE PLUG STRAIGHT OR RIGHT ANGLE	2X
ITEM	SPECIFICATION	QUANTITY

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A 0117630		JUL 22,2024		BJW	MML	
REV		ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DRFT B WILLIAMS		DATE JUN 19,2024	MFG		DATE	
CHKD M LETTANG		DATE JUN 19,2024	APPL		DATE	
DIVISION		DIVISION CODE				
DO NOT SCALE DRAWING	SCALE 1	TOLERANCES EXCEPT AS NOTED		3M Center St. Paul, MN 55144		
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	INCHES 0 ±.000 ±.0000 ±		MILLIMETERS 0 ±.5 ±0.13 ±.005		
MAX SURFACE ROUGHNESS 125/ALL SURFACES		CAGE NUMBER D78-5100-2811-7		REV. A		
MARKED ONLY		MODEL		SHT 5 OF 6		

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3M™ SlimLine Twin Axial Cable Assembly, SFF-8654, 8ESx Series

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Austin, TX 78753-5380
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www.3M.com/interconnect

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DESIGN REFERENCE

NEXT ASSEMBLY

REV

ECO

ISSUE DATE AND DESCRIPTION

DRFT

CHKD

DIVISION

DIVISION CODE

DO NOT SCALE DRAWING

SCALE

TOLERANCES EXCEPT AS NOTED

INCHES

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2018

MAX SURFACE ROUGHNESS

125

ALL SURFACES

MARKED ONLY

ANGLES

±

°

3M

3M Center
St. Paul,
MN 55144

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TITLE

SLIMLINE, SFF-8654,
X8/X4 CABLE
ASSEMBLIES

CAGE NUMBER

SIZE

DRAWING NO.

REV.

MODEL

DET

LISTs

YES

NO

SHT

6 OF 6